AMENDMENTS TO CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1.   (Currently Amended)   A computerized system for automatically updating the layout of a telecommunications network, the system comprising:

      a maintenance entry component for receiving maintenance information that equipment has been added or removed from a physical layout of a telecommunications network;

      a structural database component that automatically updates the physical layout database of the network to reflect lines or equipment have been added or removed from the physical layout of the telecommunications network;

      a relational database that organizes line usage information for the equipment corresponding to the physical layout database; [[and]]

      a report generator component that extracts the line usage information from the relational database component to generate line usage reports; and

      a report information component that extracts the line usage information from the relational database at intervals and based on report criteria specified by a user to generate the line usage reports, wherein the line usage reports include performance reports, blockage reports and consecutive reports.

2.   (Previously Presented)   The system of claim 1, further comprising:

      a maintenance tracking component for storing and tracking information regarding the entry of information into the maintenance entry component, wherein the entry information includes the time and date maintenance information was entered, an identity of the user entering the maintenance information, and lines that have been removed from and added to a particular line unit.

3.   (Previously Presented)   The system of claim 1, wherein line usage information is text associated with common language location identifiers, and wherein the line usage information includes a percent overflow, usage information, a current utilization percentage, a network element, a traffic element, hour a highest blockage occurred, a number of calls per piece of equipment, overflow information, a number of working lines, equipped lines, wired lines, amount of the equipment, and utilization of the equipment.

4. (Cancelled)

5. (Currently Amended) The system of claim 1[[4]], wherein the performance report specifies a switch type, a region, a central office switch module information, and line unit information including:

    highest hourly percent block for last weeks, a busy hour percent capacity, equipped lines, wired lines, a number of working lines, a highest busy hour usage, busiest usage values, and current or pending load balance activities;

    wherein the blockage reports specifies a number of line units blocked per week by region, regions with a highest line unit blockage, and a number of line units that may require additional equipment; and

    wherein the consecutive reports specify a region, a host, a host description, a switch, a switch module, and a line unit that has had blockages reported within a time period.

6. (Currently Amended) The system of claim 1[[4]], wherein the report criteria specifies a region, a company, a state office/host, a switch module, and a line unit, and wherein the entry information includes the time and date maintenance information was entered.

7. (Previously Presented) The system of claim 1, wherein the structural database component automatically recognized when the equipment has been added or removed in response to the relational database component accessing the physical layout database to organize the line usage information.

8. (Previously Presented) A method in a computer system for automatically updating the layout of a telecommunications network, the method comprising:

    receiving maintenance information that equipment has been added or removed from a physical layout of a telecommunications network;

    automatically updating a physical layout database of the network to reflect that equipment has been added or removed from the physical layout of the telecommunications network, such that information in the physical layout database may be utilized to generate line usage reports;

    organizing line usage information for the equipment corresponding to the physical layout database;

extracting the line usage information from a relational database component to generate line usage reports including performance reports, blockage reports, and consecutive reports; and

displaying the performance reports, blockage reports, and consecutive reports to one or more users based on criteria specified by a user.

9. (Previously Presented) The method of claim 8, further comprising:

storing the maintenance information such that it may be displayed with line usage information for associated equipment, wherein the line usage information includes a percent overflow, usage information, a current utilization percentage, a network element, a traffic element, a hour a highest blockage occurred, a number of calls per piece of equipment, overflow information, a number of working lines, equipped lines, wired lines, an amount of equipment, and utilization of the equipment.

10. (Previously Presented) The method of claim 8, further comprising:

tracking and storing information regarding the entry of information into the maintenance entry component, wherein the entry information includes a time and date maintenance information was entered, an identity of a user entering the maintenance information, and lines that have been removed from and added to a particular line unit.

11. (Previously Presented) The method of claim 8, wherein the criteria includes an interval specifying a frequency for generating each of the performance reports, blockage reports, and consecutive reports.

12. (Previously Presented) The method of claim 11, further comprising:

automatically detecting when the equipment has been added or removed in response to the relational database component accessing the physical layout database to organize the line usage information.

13. (Previously Presented) The method of claim 12, wherein the performance reports displays a switch type, a region, central office switch module information, and line unit information including:

a highest hourly percent block for the last weeks, a busy hour percent capacity, equipped lines, wired lines, a number of working lines, a highest busy hour usage, busiest usage values, and current or pending load balance activities;

wherein the blockage reports displays a number of line units blocked per week by region, regions with a highest line unit blockage, and a number of line units that require additional equipment; and

wherein the consecutive reports display a region, a host, a host description, a switch, a switch module, and a line unit that has had blockages reported within a time period.

14.   (Original) One or more computer-readable media having computer-executable instructions for performing the method recited in claim 8.

15.   (Previously Presented) A method in a computer system for displaying load balance activity, the method comprising:

receiving maintenance information that equipment has been added or removed from a physical layout of a telecommunications network;

storing the maintenance information for the associated equipment in the telecommunications network;

receiving request for line usage information for one or more items of equipment in telecommunications network;

accessing maintenance information associated with the one or more items of equipment;

organizing line usage information for the equipment corresponding to the physical layout;

extracting the line usage information to generate line usage reports including performance reports, blockage reports and consecutive reports; and

displaying the line usage reports and associated maintenance information to one or more users based on criteria specified by a user.

16.   (Previously Presented) The method of claim 15, further comprising:

storing the maintenance information and line usage information for display according to associated equipment, wherein the line usage information includes a percent overflow, usage information, a current utilization percentage, a network element, a traffic element, a hour the highest blockage occurred, a number of calls per piece of equipment, overflow information, a number of working lines, equipped lines, wired lines, an amount of equipment, and a utilization of the equipment.

17.   (Previously Presented) The method of claim 15, further comprising:

accessing information from the one or more items of equipment in the telecommunications network and converting the information to a readable form to be recorded.

18.   (Previously Presented) The method of claim 17, wherein the accessing is performed by a centralized data collection, and wherein the readable form is text associated with common language location identifiers.

19.   (Previously Presented) The method of claim 15, wherein the line usage reports include performance reports, blockage reports, and consecutive reports displaying the request line usage report.

20.   (Original) One or more computer-readable media having computer-executable instructions for performing the method recited in claim 15.

21.   (Previously Presented) A computer system for displaying load balance activity, the system comprising:

means for receiving maintenance information that equipment has been added or removed from a physical layout of a telecommunications network;

means for storing the maintenance information for the associated equipment in the telecommunications network;

means for receiving request for line usage information for one or more items of equipment in telecommunications network;

means for accessing maintenance information associated with the one or more items of equipment;

means for organizing line usage information for the equipment corresponding to the physical layout;

means for extracting the line usage information to generate line usage reports including performance reports, blockage reports and consecutive reports; and

means for displaying the line usage reports and associated maintenance information to one or more users based on criteria specified by a user.

22.   (Previously Presented) The system of claim 21, further comprising:

means for storing and tracking information related to the entry of maintenance information, wherein the entry information includes the time and date maintenance information was entered, an identity of the user entering the maintenance information, and lines that have been removed from and added to a particular line unit.

23.   (Previously Presented) The system of claim 22, wherein the line usage reports include performance reports, blockage reports, and consecutive reports.

24.   (Previously Presented) The system of claim 23, wherein the performance reports displays switch type, region, central office switch module information, and line unit information including:

a highest hourly percent block for recent weeks, a busy hour percent capacity, equipped lines, wired lines, a number of working lines, a highest busy hour usage, busiest usage values, and current or pending load balance activities;

wherein the blockage reports displays a number of line units blocked per week by region, regions with a highest line unit blockage, and a number of line units that require additional equipment; and

wherein the consecutive reports display a region, a host, a host description, a switch, a switch module, and a line unit that has had blockages reported within a time period.

25.   (Previously Presented) The method of claim 21, further comprising:

means for converting the maintenance information and line usage information to a readable form to be recorded for display.